

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	448	(702/127).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/14 11:17
S2	31	((("4,214,481") or ("4,262,536") or ("4,310,892") or ("5,267,110") or ("5,319,509") or ("5404,636") or ("5444,583") or ("5835,302") or ("5854,721") or ("5867,348") or ("6225,799") or ("6324,890") or ("6344,942") or ("6453,722") or ("6,563,661"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/02 10:23
S3	2	"20010038508"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/02 10:33
S4	22	(S1 or S2 or S3) and gravity	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/14 11:19
S5	2	(S1 or S2 or S3) and gravitation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/02 10:37
S6	42	actuator same (balanc\$3 or unbalance or imbalance) and (center or vector) near4 (gravity or gravitation\$2) with coordinate	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 14:26
S7	605	(actuator or mass or load) same (balanc\$3 or unbalance or imbalance) same ((center or vector) near4 (gravity or gravitation\$2) or x near6 y) with (coordinate or component)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 17:15
S8	605	(actuator or mass or load) same (balanc\$3 or unbalance or imbalance) same ((center or vector) near4 (gravity or gravitation\$2) or x near6 y) with (coordinate or component)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/11 12:21

## EAST Search History

S9	86	S8 and (first with (x near8 y or coordinate) same second with (x near8 y or coordinate))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 14:02
S10	22	S9 and (center or vector) near4 (gravity or gravitation\$2) with coordinate	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 14:26
S11	42	S9 and (center or vector) near4 (gravity or gravitation\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 14:33
S12	33	S9 and (center or vector) near4 (gravity or gravitation\$2) with (x near8 y or coordinate)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 15:07
S13	16	("5208497"   "5477304"   "5537186"   "5815246"   "5959427"   "5982128"   "6028376"   "6246204"   "6252370"   "6255795"   "6255796"   "6262796"   "6323935"   "6329780"   "6337484"   "6525803").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/08 14:48
S14	5	S13 and (center or vector) near4 (gravity or gravitation\$2) with (x near8 y or coordinate)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 14:49
S15	0	("7034920").URPN.	USPAT	OR	OFF	2007/06/08 14:58
S16	4	(center or vector) near4 (gravity or gravitation\$2) with (x near8 y) with coordinate near3 systems	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/08 15:11
S17	25	(center or vector) near4 (gravity or gravitation\$2) with coordinate near3 systems	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/11 15:39
S18	4588	(center or vector) near4 (gravity or gravitation\$2) with (coordinate or (x near9 y))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/11 12:20

## EAST Search History

S19	494	S18 and (actuator or mass or load) same (balance or unbalance or imbalance)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/11 12:22
S20	109	S18 same (actuator or mass or load) same (balance or unbalance or imbalance)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/11 14:11
S21	0	("00422.3").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/11 14:11
S22	248	(84/422.3).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/11 14:11
S23	134	(calculate or compute or determine or estimate or produce) near4 (center or vector) near4 (gravity or gravitation) with coordinate near8 systems	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/11 16:08
S24	136	(calculate or compute or determine or estimate or produce) near4 (center or vector) near4 (gravity or gravitation) with (coordinate or x with y) near8 systems	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 10:23
S27	0	("6053033").URPN.	USPAT	OR	OFF	2007/06/12 10:04
S28	1	("4428225").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/12 10:04
S29	5	("4428225").URPN.	USPAT	OR	OFF	2007/06/12 10:10
S30	255	center near4 mass with (coordinate near4 system)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 10:12
S31	40	(calculate or compute or determine or estimate or produce) near4 (center) near4 (mass) with (coordinate or x with y) near8 systems	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 10:31

## EAST Search History

S32	108	(calculat\$3 or comput\$3 or determin\$3 or estimat\$3 or produc\$3) near4 (center) near4 (gravity) with (coordinate or x with y) near8 systems	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 17:13
S33	37	("20020133174"   "20030033024"   "20030045888"   "20030050733"   "4837734"   "5187796"   "5297149"   "5515478"   "5524180"   "5553198"   "5645520"   "5649956"   "5657429"   "5754741"   "5762458"   "5815640"   "5841950"   "5847359"   "5855583"   "5878193"   "5907664"   "5911036"   "5971976"   "5986651"   "6001108"   "6007550"   "6063095"   "6102850"   "6132441"   "6202004"   "6244809"   "6304050"   "6309397"   "6436107"   "6463361"   "6496099"   "6699177").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/12 10:37
S34	0	S32 and S33	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/12 10:38
S35	0	S30 and S33	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/12 10:38
S36	0	("7164968").URPN.	USPAT	OR	OFF	2007/06/12 12:20
S37	2930	voice near3 coil near3 motor with current	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 12:22
S38	33	S37 and (actuator or mass or load) same (balanc\$3 or unbalance or imbalance) with current	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 14:58
S39	0	center near4 (imbalance or unbalance) with coordinate near4 systems	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/12 14:59
S40	0	center near4 (imbalance or unbalance) with coordinate near4 system	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/12 14:59

## EAST Search History

S41	0	center near4 (imbalance or unbalance) with coordinate near4 system	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 15:02
S42	3	center near4 (imbalance or unbalance) with coordinate	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 15:01
S43	1549	center near4 (imbalance or unbalance)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 15:01
S44	11	center near4 (imbalance or unbalance) same coordinate near4 system	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 15:03
S45	12	center near4 (imbalance or unbalance) with x with y	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 15:03
S46	371	(calculat\$3 or comput\$3 or determin\$3 or estimat\$3 or produc\$3) near4 (center) near4 (gravity) with plane	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 17:40
S47	67	S46 and (actuator or mass or load) same (balanc\$3 or unbalance or imbalance)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 15:05
S48	10	multiply\$3 near4 mass with actuator	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/12 15:14
S49	8	actuator same (unbalance or imbalance) with center near4 (gravity or gravitation\$2) with mass	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 15:30

## EAST Search History

S50	3	(unbalance or imbalance) with center near4 (gravity or gravitation\$2) with mass with multiply\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 17:20
S51	1164	(calculat\$3 or comput\$3 or determin\$3 or estimat\$3 or produc\$3) near4 center near4 (gravity or mass) with (coordinate or x with y)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 17:18
S52	24855	actuator same disc with drive	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 17:15
S53	9	S51 and S52	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 17:16
S54	89	S52 and (calculat\$3 or comput\$3 or determin\$3 or estimat\$3 or produc\$3) near4 center near4 (gravity or mass)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 17:19
S55	47	(unbalance or imbalance) and S54	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 17:41
S56	36	(unbalance or imbalance) same actuator and (calculat\$3 or comput\$3 or determin\$3 or estimat\$3 or produc\$3) near4 center near4 (gravity or mass or gravitation\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 17:51
S57	453	actuator same (disc or drive) and (calculat\$3 or comput\$3 or determin\$3 or estimat\$3 or produc\$3) near4 center near4 (gravity or mass or gravitation\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 22:34
S58	453	actuator same (disc or drive) and (calculat\$3 or comput\$3 or determin\$3 or estimat\$3 or produc\$3) near4 center near4 (gravity or mass or gravitation\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 22:36

## EAST Search History

S59	2	"20010038508"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/13 13:18
S60	7708	360/75.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/14 11:18
S61	106	S60 and gravity	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/14 11:19